

ABSTRACT

Disclosed is a battery with a light weight and a high energy density. The battery includes a anode 5, having a layer of an anode active material 9 formed on an anode substrate 8, a cathode 6, including a layer of a cathode active material 14 formed on a cathode substrate 13, and a non-aqueous liquid electrolyte 4. The anode substrate 8 includes an anode resin film 11 containing a polymer and an anode metal layer 12 containing an electrically conductive metal. Since the anode resin film 11 reduces the weight of the anode substrate 8 and the anode metal layer 12 imparts electron conductivity to the anode substrate 8, the battery may be reduced in weight without detracting from battery characteristics to increase the energy density.